

Form PTO-1449  
(Rev. 8-83)

U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.  
CC-0700

Serial No.  
10/756,977

Information Disclosure Citation

(Use several sheets if necessary)

Applicant:  
Alan D. Kersey

Filing Date:  
January 13, 2004

Group: 2863  
Confirmation No: 3781

U. S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
W	2 8 7 4 5 6 8	12/1955	Petermann			
	3 7 1 5 7 0 9	02/1973	Zacharias et al.			
	3 7 5 1 9 7 9	08/1973	Ims, John Robert			
	3 7 8 1 8 9 5	12/1973	Monser			
	3 8 5 1 5 2 1	12/1974	Ottenstein			
	3 8 8 5 4 3 2	05/1975	Herzl, Peter J.			
	3 9 5 2 5 7 8	04/1976	Jacobs			
	4 0 0 4 4 6 1	01/1977	Lynworth			
	4 0 3 2 2 5 9	06/1977	Brown			
	4 0 8 0 8 3 7	03/1978	Alexander et al.			
	4 1 9 5 5 1 7	04/1980	Kalinoski et al.			
	4 3 2 0 6 5 9	03/1982	Lynnworth et al.			
	4 5 2 0 3 2 0	05/1985	Potzick et al.			
	4 5 6 1 3 1 0	12/1985	Barnard et al.			
	4 6 7 7 3 0 5	06/1987	Ellinger			
	4 7 1 7 1 5 9	01/1988	Alston et al.			
	4 9 3 2 2 6 2	06/1990	Wlodarczyk			
	5 0 6 0 5 0 6	10/1991	Douglas			
	5 2 8 9 7 2 6	03/1994	Miau et al.			
	5 3 5 9 8 9 7	11/1994	Hamstead et al.			
	4 0 4 8 8 5 3	09/1977	Smith et al.			
	4 1 9 5 5 1 7	04/1980	Kalinoski et al.			
	4 2 4 8 0 8 5	02/1981	Coulthard			
	4 4 4 5 3 8 9	05/1984	Potzick et al.			
	4 8 9 6 5 4 0	01/1990	Shakkottai et al.			
	5 0 4 0 4 1 5	08/1991	Barkhoudarian			
	5 0 8 3 4 5 2	01/1992	Hope			
	5 2 1 8 1 9 7	06/1993	Carroll			
	5 2 8 5 6 7 5	02/1994	Colgate et al.			
	5 3 6 7 9 1 1	11/1994	Jewell et al.			
	5 3 9 8 5 4 2	03/1995	Vasbinder			
	5 5 2 6 8 4 4	06/1986	Kamen et al.			
	5 5 2 4 4 7 5	06/1996	Kolpak et al.			
	5 8 5 6 6 2 2	01/1999	Yamamoto et al.			
	5 9 4 8 9 5 9	09/1999	Peloquin			
	6 4 4 3 2 2 6	09/2002	Diener et al.			
	6 5 5 8 0 3 6	05/2003	Gysling et al.			
	6 6 0 1 4 5 8	08/2003	Gysling et al.			
	6 9 8 8 4 1 1	01/2006	Gysling, et al.			

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes/No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

W		Piezo Film Sensors Technical Manual - Measurement Specialties Inc. - Sensor Products Division 02 April 99

Examiner	Date Considered
Tyger	7-7-07

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**U. S. PATENT DOCUMENTS**

Examiner Initial		Document Number								Date	Name	Class	Subclass	Filing Date If Appropriate
<i>u</i>	2002	0	1	2	9	6	6	2		09/2002	Gysling et al.			
	2002	0	1	2	3	8	5	2		09/2002	Gysling et al.			
	2003	0	0	3	8	2	3	1		02/2003	Bryant et al.			
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	2003	0	1	3	6	1	8	6		07/2003	Gysling et al.			
	2003	0	1	5	4	0	3	6		08/14/03	Gysling et al.			
	2004	0	0	1	6	2	8	4		01/29/04	Gysling et al.			
	2004	0	0	6	9	0	6	9		04/2004	Gysling et al.			
	2004	0	0	7	4	3	1	2		04/2004	Gysling			
	2004	0	1	4	4	1	8	2		07/2004	Gysling et al.			
	2004	0	1	6	7	7	3	5		08/2004	Rothman et al.			
	2004	0	1	9	4	5	3	9		10/2004	Gysling			
	2004	0	1	9	9	3	4	0		10/01/04	Gysling et al.			
	2004	0	2	1	0	4	0	4		10/21/04	Gysling et al.			
	2004	0	2	3	1	4	3	1		11/2004	Bailey et al.			
	2004	0	2	5	5	6	9	5		12/2004	Gysling et al.			
	2005	0	0	1	1	2	8	4		01/20/05	Davis et al.			
	2005	0	0	0	0	2	8	9		01/2005	Gysling et al.			
	2005	0	0	0	5	7	1	3		01/2005	Winston et al.			
	2005	0	0	0	5	7	1	2		01/2005	Gysling et al.			
	2005	0	0	5	0	9	5	6		03/2005	Gysling et al.			
	2005	0	0	1	1	2	5	8		01/2005	Gysling et al.			
	2005	0	0	1	1	2	8	4		01/2005	Gysling et al.			
	2005	0	0	1	2	9	3	5		01/2005	Kersey			
	2005	0	0	1	1	2	8	3		01/2005	Gysling et al.			
	2005	0	0	0	5	7	1	1		01/2005	Gysling et al.			
	2005	0	0	3	3	5	4	5		02/2005	Gysling			
	2005	0	0	4	4	9	2	9		03/2005	Gysling et al.			
	2005	0	0	3	9	5	2	0		02/2005	Davis et al.			
	2005	0	0	4	4	9	6	6		03/2005	Gysling et al.			
	2005	0	0	7	2	2	1	6		04/2005	Engel			
<i>u</i>	2005	0	1	2	5	1	6	6		06/2005	Loose et al.			

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation Yes/No
<i>u</i>	WO	04/063741	07/2004	WO			
<i>u</i>	WO	02/050511	06/2002	WO			
<i>u</i>	EP	1186868	03/2002	EP			
<i>u</i>	WO	00/046583	08/2000	WO			
<i>u</i>	WO	99/067629	12/1999	WO			
<i>u</i>	WO	93/14382	07/1993	WO			

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Examiner  <i>Jym</i>	Date Considered  <i>7-7-07</i>
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Form PTO-1449 U.S. Department of Commerce (Rev. 8-83) Patent and Trademark Office		Attorney Docket No. CC-0700		Serial No. 10/756,977	
Information Disclosure Citation (Use several sheets if necessary)		Applicant: Alan D. Kersey			
		Filing Date: January 13, 2001		Group: 2863 Confirmation No: 3781	

  

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Examiner Initial		Document Number							Date	Name	Class	Subclass	Filing Date If Appropriate
K		4	4	4	5	3	8	9	05/1984	Potzick et al.			
		4	6	7	7	3	0	5	06/1987	Ellinger			
		4	8	9	6	5	4	0	01/1990	Shakkottai et al.			
		5	0	4	0	4	1	5	08/1991	Barkhoudarian			
		5	0	8	3	4	5	2	01/1992	Hope			
		5	2	1	8	1	9	7	06/1993	Carroll			
		5	3	6	3	3	4	2	11/1994	Layton et al.			
		5	3	9	8	5	4	2	03/1995	Vasbinder			
		5	5	9	1	9	2	2	01/1997	Segeral et al.			
		5	5	2	4	4	7	5	06/1996	Kolpak et al.			
		5	7	4	1	9	8	0	04/1998	Hill et al.			
		5	7	7	0	8	0	5	06/1998	Castel			
		5	7	7	0	8	0	6	06/1998	Huismaki			
		5	8	3	5	8	8	4	11/1998	Brown			
		5	8	4	5	0	3	3	12/1998	Berthold et al.			
		5	3	6	3	3	4	2	11/1994	Layton et al.			
		5	7	0	8	2	1	1	01/1998	Jepson et al.			
		5	5	2	6	8	4	4	06/1986	Kamen et al.			
		6	2	0	2	4	9	4	03/2001	Richel et al.			
		6	3	7	8	3	5	7	04/2002	Han et al.			
		6	5	8	7	7	9	8	07/2003	Kersey et al.			
		6	6	0	9	0	6	9	08/2003	Gysling			
		6	4	6	3	8	1	3	10/2002	Gysling			
		6	5	5	0	3	4	2	04/2003	Croteau et al.			
		6	6	9	1	5	8	4	02/2004	Gysling et al.			
	6	4	3	5	0	3	0	08/2002	Gysling et al.				
	6	5	3	6	2	9	1	03/2003	Gysling et al.				
	6	7	3	2	5	7	5	05/2004	Gysling et al.				
	6	7	8	2	1	5	0	08/2004	Davis et al.				
K		6	8	1	3	9	6	2	11/2004	Gysling et al.			

  

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Examiner Initial		Document Number							Date	Country	Class	Subclass	Translation Yes/No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
K	"Noise and Vibration Control Engineering Principles and Applications", Leo L. Beranek and Istvan L. Ver. A. Wiley Interscience Publication, pp. 537-541, Aug. 1992
K	"Two Decades of Array Signal Processing Research", The Parametric Approach", H. Krim and M. Viberg, IEEE Signal Processing Magazine, Jul., 1996, pp. 67-94
K	"Development of an array of pressure sensors with PVDF film, Experiments in Fluids 26", January 8, 1999, Springer-Verlag
K	"Viscous Attenuation of Acoustic Waves in Suspensions" by R.L. Gibson, Jr. and M.N. Toksoz
Examiner	<div style="display: flex; justify-content: space-between;"> <div>           Date Considered            7-7-07         </div> <div>           May 1989, pp 1925-1934         </div> </div>

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<i>W</i>	5 6 2 5 1 4 0	04/1997	Cadet et al.			
	5 7 4 1 9 8 0	04/1998	Hill et al.			
	5 7 7 0 8 0 5	06/1998	Castel			
	5 7 7 0 8 0 6	06/1998	Hiismaki			
	5 8 3 5 8 8 4	11/1998	Brown			
	5 9 4 8 9 5 9	09/1999	Peloquin			
	6 0 1 6 7 0 2	01/2000	Maron			
	6 1 5 1 9 5 8	11/2000	Letton et al.			
	6 2 0 2 4 9 4	03/2001	Ricbel et al.			
	6 2 3 3 3 7 4	05/2001	Ogle et al.			
	6 2 6 1 2 3 2	07/2001	Yokosawa et al.			
	6 3 4 5 5 3 9	02/2002	Rawcs et al.			
	6 3 4 9 5 9 9	02/2002	Lynnworth et al.			
	6 3 5 4 1 4 7	03/2002	Gysling et al.			
	6 3 7 8 3 5 7	04/2002	Han et al.			
	6 3 9 7 6 8 3	06/2002	Hagenmeyer et al.			
	6 4 1 2 3 5 3	07/2002	Kleven et al.			
	6 4 3 5 0 3 0	08/2002	Gysling et al.			
	6 4 5 0 0 3 7	09/2002	McGuinn et al.			
	6 4 6 3 8 1 3	10/2002	Gysling			
	6 4 4 2 9 9 6	09/2002	Thurston et al.			
	6 5 3 2 8 2 7	03/2003	Ohnishi			
	6 5 3 6 2 9 1	03/2003	Gysling et al.			
	6 5 8 7 7 9 8	07/2003	Kersey et al.			
	6 6 0 1 0 0 5	07/2003	Eryurek et al.			
	6 6 0 9 0 6 9	08/2003	Gysling			
	6 6 5 8 9 4 5	12/2003	Kleven	73		
	6 6 9 8 2 9 7	03/2004	Gysling			
<i>W</i>	6 8 1 3 9 6 2	11/2004	Gysling et al.			

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes/No
<i>W</i>	DE 4306119	09/1994	GERMANY			
<i>W</i>	EP 0290336	11/1988	EUROPE			
<i>W</i>	GB 2210169	06/1989	UK			
<i>W</i>	WO 00/00793	01/00	PCT			
<i>W</i>	WO 01/02810	01/01	PCT			

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>W</i>	Sonar-Based Volumetric Flow Meter For Pulp and Paper Applications - Daniel L. Gysling & Douglas H. Loose - 12/13/03	<i>page 1-5</i>
<i>W</i>	Sonar-Based Volumetric Flow Meter for Chemical and Petrochemical Applications - Daniel L. Gysling & Douglas H. Loose - 02/14/03	<i>page 1-8</i>
<i>W</i>	New Flowmeter Principle - By Walt Boyes - Flow Control Magazine - October 2003 Issue	
	SONAR Gets into the Flow - Daniel L. Gysling and Douglas H. Loose - Modern Process - January 2004	<i>date</i>

Examiner <i>Wm</i>	Date Considered <i>7-7-07</i>
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		Document Number							Date	Name	Class	Subclass	Filing Date
<i>u</i>		6	6	7	2	1	6	3	01/2004	Han et al.			
		6	6	9	1	5	8	4	02/2004	Gysling et al.			
		6	7	3	2	5	7	5	05/2004	Gysling et al.			
		6	7	7	3	6	0	3	08/2004	Moorehead et al.			
		6	7	8	2	1	5	0	08/2004	Davis et al.			
		6	8	3	7	0	9	8	01/2005	Gysling et al.			
		6	8	3	7	3	3	2	01/2005	Rodney			
		6	8	6	2	9	2	0	03/2005	Gysling et al.			
		6	8	8	9	5	6	2	05/2005	Gysling et al.			
		6	8	9	8	5	4	1	05/2005	Gysling et al.			
		6	9	7	1	2	5	9	12/2005	Gysling			
		7	0	3	2	4	3	2	04/2006	Gysling et al.			
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	2004	0	0	0	6	4	0	9	01/2004	Liljenberg et al.			
	2004	0	0	6	9	0	6	9	04/2004	Gysling et al.			
	2004	0	1	6	8	5	2	2	09/2004	T.J. Bailey et al.			
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	2004	0	1	9	9	3	4	0	10/01/04	Gysling et al.			
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	2004	0	2	1	0	4	0	4	10/21/04	Gysling et al.			
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	2005	0	0	6	1	0	6	0	03/2005	T. Banach et al.			
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	2005	0	0	0	0	2	8	9	01/2005	Gysling et al.			
	2005	0	0	0	5	7	1	1	01/2205	Gysling et al.			
	2005	0	0	0	5	7	1	3	01/2005	Winston et al.			
	2005	0	0	0	5	7	1	2	01/2005	Gysling et al.			
	2005	0	0	3	3	5	4	5	02/2005	Gysling			
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	2005	0	0	1	1	2	8	4	01/2005	Gysling et al.			
<i>u</i>	2005	0	1	7	1	7	1	0	08/2005	Gysling et al.			

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